Pollution Prevention (P2)

Module Objective

- **Learn how pollution prevention opportunities and initiatives can improve the Fort Carson environment, enhance readiness, and save money.**

Outline of Presentation

- **P2 Background**
  - **P2 Video**
  - **P2 Hierarchy Exercise**
- **Fort Carson P2 Program**
- **P2 in Motor Pools**
  - **Motor Pool Exercise**
- **P2 Summary**
- **Solid Waste Management**

Why Pollution Prevention?

- **EO 13148, Greening the Government Through Leadership in Environmental Management**
- **EO 12873 - Federal Acquisition, Recycling, and Waste Prevention**
- **Pollution Prevention Act (PPA) of 1990**

Fort Carson's P2 Policy

- **Provide a safe, clean environment**
- **Comply with all applicable laws and regulations**
- **Accomplish mission efficiently**
- **Reduce liability and waste management costs**
- **Help foster positive public relations**
- **Strive towards sustainable operations**

Fort Carson's Sustainability Goals

- **Eliminate hazardous and solid waste disposal by 2027 (Goal 10)**
- **Eliminate hazardous air pollutants by 2027 (Goal 5)**
- **Reduce water use by 75% and increase renewable energy use to 100% by 2027 (Goal 1)**
- **Procurement actions support sustainability by 2027 (Goal 9)**

P2 Goals

- **Enhance readiness and make the soldiers' job easier**
- **Reduce negative impacts on the environment**
- **Reduced costs = More training dollars**
- **Reduce liabilities**
- **Support the sustainability program**

P2 Compliance Tools

- **Environmental Performance Assessment System (EPAS)**
- **Pollution Prevention Opportunity Assessment (PPOA)**
- **Hazardous Substance Management System (HSMS)**
- **Emergency Planning and Community Right-to-Know (EPCRA) Reports**

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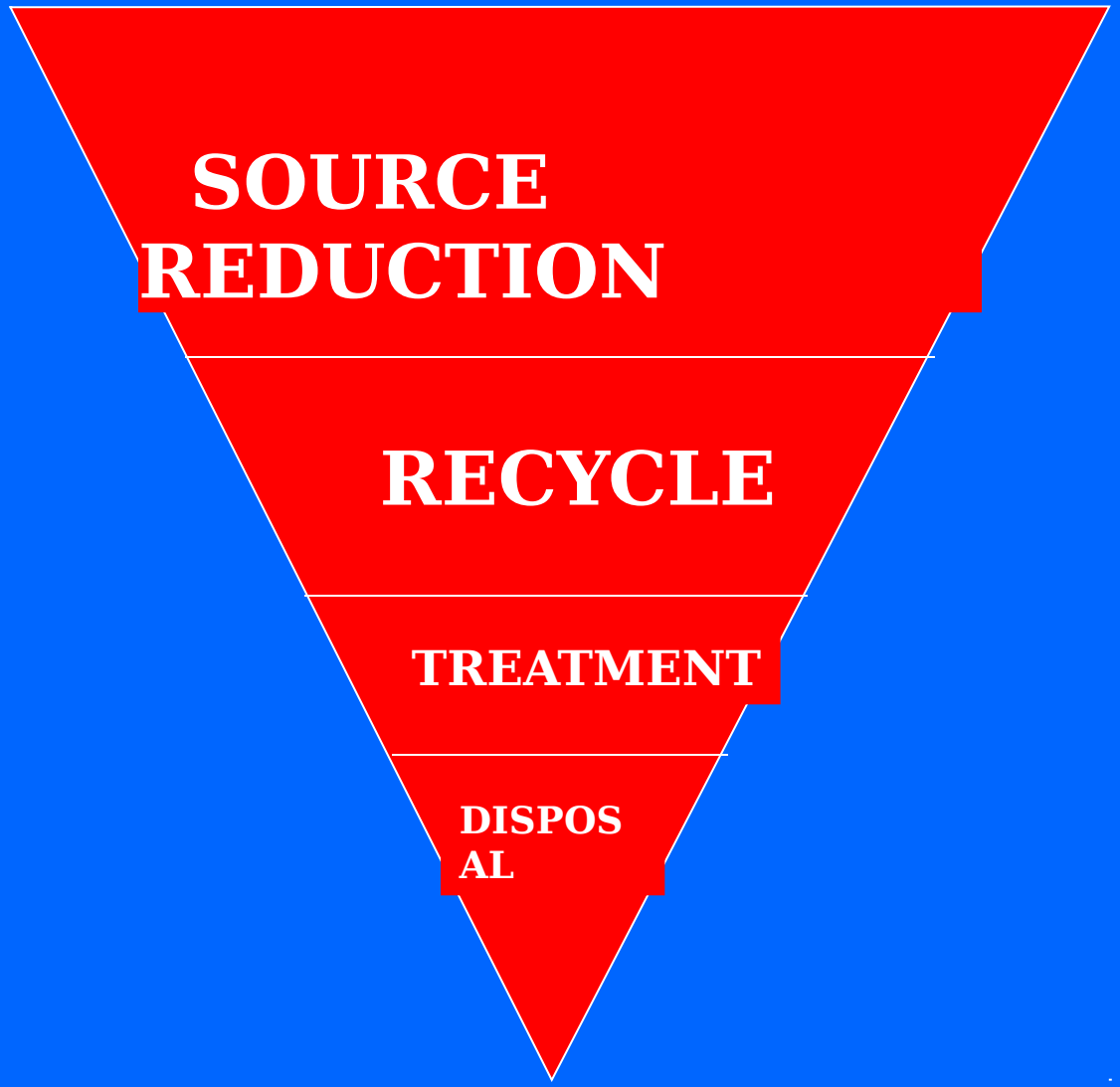
- **Covers the procurement, use, handling, storage, transportation and disposition of hazardous and toxic materials and wastes.**
- **Following the guidelines within this document ensures best P2 practices are applied.**

Video: Pollution Prevention

Pollution Prevention Hierarchy Ex



Some Fort Carson P2 Programs

- **Hazardous Material Control Center**
- **Spill Prevention Program**
- **Off-Spec Fuel Filtration**
- **Parts Washer Solvent Recycling**
- **Antifreeze Recycling**
- **Xylene/Alcohol Recycling**
- **Oil Filter, Aerosol Can and Fluorescent Bulb Collection/Crushing**

Wastes Generated at Fort Carson

Material	Hazardous?	Recycled?	Disposition
Off Spec Fuel	Y	Y	DECAM
Used Oil	N	Y	DOL (use Convaults)
Used - Weapon Cleaner Solvent	Y	Y	DECAM
Used - Parts Washer Solvent	Y	Y	DECAM
Used Antifreeze	N	Y	DECAM (use Totes)
Used Dry Sweep	N	Y	HW Facility
Empty Aerosol Cans	N	Y	HW Facility
Non-empty Aerosol Cans	Y	N	HW Facility
Paint and Related Waste	Y	N	HW Facility
Shop Rags - Oil & Grease	Depends	Y	Shop Towel Program
Batteries - Li, Mg, NiCad	Y	N	Vendor/HW Facility
Batteries - Lead Acid	Y	Y	DOL
Lamps - Sodium Vapor and Incandescent	N	N	Landfill
Lamps - Fluorescent	Y	Y	HW Facility
Empty Containers - Adhesives, Solvents	N	N	HMCC
Non-empty Containers	Y	N	HMCC
Used Military Tires	N	Y	DRMO
Wooden Pallets	N	N	Landfill/Creative Use
Scrap Metal	N	Y	DRMO/Metal Bins
Trash	N	N	Landfill
White Paper/Cardboard/Aluminum Cans	N	Y	DECAM/Recycle Bins

Less Hazardous Materials: Environmentally Friendly Weapons Cleaner

Recycling Hazardous Materials: JP-8 Recycling System

Reducing Waste and Capturing Hazardous Materials: Fluorescent Bulb Crushing

Motorpool-Specific P2 Program Elements

- **Segregate! Segregate! Segregate!**
  - **Put ONLY used oil and hydraulic fluid in used oil convaults**
  - **Put ONLY used antifreeze in used antifreeze totes**
  - **Put ONLY cardboard in cardboard dumpsters**
- **Monitor POL yards, tankers, and motor pools daily**
- **Clean up all POL spills immediately**
- **Do not dump anything in parts washers as it will contaminate the solvent**
- **Do not move motor vehicles outside of motor pool if leaking**

Motorpool Exercise

EPO Duties - Pollution Prevention Summary

- **Use and encourage the use of recycling programs on Fort Carson (oil, cardboard, antifreeze, cans, etc.)**
- **Minimize generation of waste by segregating!**
- **Use the Hazardous Material Control Center for all hazardous material orders**
- **Consult DECAM if you have any questions**
- **Keep an eye open for P2 opportunities**
  - **Funds are usually available from year to year to fund P2 projects, call 6-1739, for example…..**

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Equipment Purchases

Solid Waste Management and Recycling

Solid Waste Management and Recycling Objectives

- **Minimize solid waste disposal where possible**
- **Use affirmative procurement**
- **Improve recycling efforts and awareness**

Fort Carson's Solid Waste Policy

- **Minimize** waste and reduce litter
- **Maximize** recovery of waste materials for recycling
- **Comply** with Federal, State, and local regulations applicable to solid waste disposal
- **Reduce** pollution that has its source in solid waste

Solid Waste Summary

- **Strategy**
  - **Reduce solid waste**
  - **Recycle non-hazardous solid waste**
  - **Improve existing recycling programs**
- **Example: Air Filter Cleaning Program**